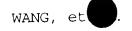
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     SEQ ID NO: 5 is human MIP-3\alpha nucleotide sequence.
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     SEQ ID NO: 7 is human MIP-3\beta nucleotide sequence.
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     SEO ID NO: 9 is human DC CR nucleotide sequence.
     SEQ ID NO: 10 is human DC CR amino acid sequence.
     SEQ ID NO: 11 is human M/DC CR nucleotide sequence.
15
     SEQ ID NO: 12 is human M/DC CR amino acid sequence.
     SEQ ID NO: 13 is human CCKR1 amino acid sequence.
     SEQ ID NO: 14 is human CCKR2 amino acid sequence.
     SEQ ID NO: 15 is human CCKR3 amino acid sequence.
     SEQ ID NO: 16 is human CCKR4 amino acid sequence.
20
     SEQ ID NO: 17 is HPRT sense primer.
     SEQ ID NO: 18 is HPRT antisense primer.
     SEQ ID NO: 19 is FLAG epitope tag sequence.
25
     (1) GENERAL INFORMATION:
           (i) APPLICANT: Wang, Wei
                          Gish, Kurt C.
                          Schall, Thomas J.
                          Vicari, Alain P.
30
                          Zlotnik, Albert
          (ii) TITLE OF INVENTION: MAMMALIAN CHEMOKINE REAGENTS
35
        (iii) NUMBER OF SEQUENCES: 19
         (iv) CORRESPONDENCE ADDRESS:
                (A) ADDRESSEE: DNAX Research Institute
                (B) STREET: 901 California Avenue
40
                (C) CITY: Palo Alto
                (D) STATE: California
                (E) COUNTRY: USA
                (F) ZIP: 94304-1104
45
          (v) COMPUTER READABLE FORM:
                (A) MEDIUM TYPE: Floppy disk
                (B) COMPUTER: IBM PC compatible
                (C) OPERATING SYSTEM: PC-DOS/MS-DOS
                (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
50
          (vi) CURRENT APPLICATION DATA:
                (A) APPLICATION NUMBER:
                (B) FILING DATE:
                (C) CLASSIFICATION:
55
         (vii) PRIOR APPLICATION DATA:
                (A) APPLICATION NUMBER: US 08/675,814
                (B) FILING DATE: 05-JUL-1996
```

provisional filings DX0589P, DX0589P1; DX0589P2

various



5	(viii)	(A) (B)	RNEY/AGE NAME: C REGISTF REFEREN	Ching,	Edwin NUMBE	P. R: 34	1,090 R: DX	) (0589	9Q1					
10	(ix)	(A)	COMMUNIC TELEPHO TELEFA	ONE: 4	15-852	-919	ON:							
	(2) INFO	RMATT	ON FOR S	SEO II	) NO:1:									
15	•	SEQUI (A) (B) (C)	ENCE CHA LENGTH TYPE: 1 STRANDI	ARACTE : 1034 nuclei EDNESS	ERISTIC 1 base ic acid 5: sing	S: pair	s							
20	(ii)	MOLE	CULE TY	PE: cl	DNA					,				
25	(ix)		URE: NAME/K LOCATI											
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	TCAGGTA	rct gg	AGAGGAG	А ТСТ	AACCTT	C ACT	ATG Met	Lys	. CTG Leu	TGG Trp	CTT Leu 5	Phe	GCC Ala	114
35	TGC CTG Cys Leu	GTT G Val A	GCC TGT Ala Cys	TTT G Phe V	TT GGG al Gly 15	GCC Ala	TGG Trp	ATG Met	CCG Pro	GTT Val 20	GTC Val	CAT His	GCC Ala	162
40	CAA GGT Gln Gly 25	Ala F	TTT GAA Phe Glu	GAC T Asp C	GC TGC Ys Cys 30	CTG Leu	GGT Gly	TAC Tyr	CAG Gln 35	CAC His	AGG Arg	ATC Ile	AAA Lys	210
45	TGG AAT Trp Asn 40	GTT (	CTC CGG Leu Arg	CAT G His A 45	GCT AGG	AAT Asn	TAT Tyr	CAC His 50	CAG Gln	CAG Gln	GAA Glu	GTG Val	AGT Ser 55	258
50	GGA AGC Gly Ser	TGC A	AAC CTA Asn Leu 60	CGT C	GCT GTG Ala Val	AGA Arg	TTC Phe 65	TAC Tyr	TTC Phe	CGC Arg	CAG Gln	AAA Lys 70	GTA Val	306
	GTG TGT Val Cys	GGG A	AAT CCA Asn Pro 75	GAG (	GAC ATO Asp Met	AAT Asn 80	GTG Val	AAG Lys	AGG Arg	GCG Ala	ATA Ile 85	AGA Arg	ATC Ile	354
55	TTG ACA	GCT Ala	AGG AAA Arg Lys	AGG (	CTA GTO Leu Val	His	TGG Trp	AAG Lys	AGC Ser	GCC Ala 100	TCA Ser	GAC Asp	TCT Ser	402
60	CAG ACT	GAA	AGG AAG	AAG '	TCA AAG	CAT	ATG	AAG	TCC	AAG	GTG	GAG	AAC	450

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	Gln Thr Glu Arg Lys Lys Ser Asn His Met Lys Ser Lys Val Glu Asn 105 110 115	
5	CCC AAC AGT ACA AGC GTG AGG AGT GCC ACC CTA GGT CAT CCC AGG ATG Pro Asn Ser Thr Ser Val Arg Ser Ala Thr Leu Gly His Pro Arg Met 120 125 130 135	498
10	GTG ATG ATG CCC AGA AAG ACC AAC AAT TAAGTTAATT ACTCAGAGTA Val Met Met Pro Arg Lys Thr Asn Asn 140	545
	AGCACCAGCT GGAGGATGGG CGGAGTCTGC TGAAGTGCTG TCTTCTAGGC ATGCCAGTGC	605
15	CAATGAACTC ACTGAAGCTA CAGTTTCCTG TACAAGACCA GACCCACCAA CGTCTCAGCA	665
13	TGTACGAGGA AGGAACTACT GCGCTAAAGG CCCTCCCACT CACCAAGGAG CTATTGGCTA	725
	TTGATGATTG CTGAGGGAAG GGAGTAATTT TTTTTCTCTT TCTGAAGTGT GACTTGAGTA	785
20	AATTGCCCAT AGTTCAGTAT ATAATCCCCA ACCTGTGCTC AGGCAAGCAA CCCTAATTAA	845
	ATGCAATAGC CACATACAAA AGAAGAGGAT ATGAATAGTT TGGTAGGAGG GGCTTGTTAG	905
25	GAAGAAGACA TTAACAGGAG AGAGAGGAGC GAGAGGATAG TGAGTGTGTG AGAGTGCCTG	965
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50	Gly Tyr Gln His Arg Ile Lys Trp Asn Val Leu Arg His Ala Arg Asn 35 40 45	
30	Tyr His Gln Gln Glu Val Ser Gly Ser Cys Asn Leu Arg Ala Val Arg 50 55 60	
55	Phe Tyr Phe Arg Gln Lys Val Val Cys Gly Asn Pro Glu Asp Met Asn 65 70 75 80	
	Val Lys Arg Ala Ile Arg Ile Leu Thr Ala Arg Lys Arg Leu Val His 85 90 95	
60	Trp Lys Ser Ala Ser Asp Ser Gln Thr Glu Arg Lys Lys Ser Asn His	

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105 110 100 Met Lys Ser Lys Val Glu Asn Pro Asn Ser Thr Ser Val Arg Ser Ala 120 5 Thr Leu Gly His Pro Arg Met Val Met Met Pro Arg Lys Thr Asn Asn 135 (2) INFORMATION FOR SEQ ID NO:3: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1012 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 15 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA 20 (ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 117..566 (ix) FEATURE: 25 (A) NAME/KEY: mat\_peptide (B) LOCATION: 186..566 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: 30 TCGACCCACG CGTCCGCTTG GCCTACAGCC CGGCGGGCAT CAGCTCCCTT GACCCAGTGG 60 ATATCGGTGG CCCCGTTATT CGTCCAGGTG CCCAGGGAGG AGGACCCGCC TGCAGC 116 35 ATG AAC CTG TGG CTC CTG GCC TGC CTG GTG GCC GGC TTC CTG GGA GCC 164 Met Asn Leu Trp Leu Leu Ala Cys Leu Val Ala Gly Phe Leu Gly Ala -20 TGG GCC CCC GCT GTC CAC ACC CAA GGT GTC TTT GAG GAC TGC TGC CTG 212 40 Trp Ala Pro Ala Val His Thr Gln Gly Val Phe Glu Asp Cys Cys Leu GCC TAC CAC TAC CCC ATT GGG TGG GCT GTG CTC CGG CGC GCC TGG ACT 260 Ala Tyr His Tyr Pro Ile Gly Trp Ala Val Leu Arg Arg Ala Trp Thr 45 2.0 TAC CGG ATC CAG GAG GTG AGC GGG AGC TGC AAT CTG CCT GCT GCG ATA 308 Tyr Arg Ile Gln Glu Val Ser Gly Ser Cys Asn Leu Pro Ala Ala Ile 30 50 TTC TAC CTC CCC AAG AGA CAC AGG AAG GTG TGT GGG AAC CCC AAA AGC 356

Phe Tyr Leu Pro Lys Arg His Arg Lys Val Cys Gly Asn Pro Lys Ser

AGG GAG GTG CAG AGA GCC ATG AAG CTC CTG GAT GCT CGA AAT AAG GTT

Arg Glu Val Gln Arg Ala Met Lys Leu Leu Asp Ala Arg Asn Lys Val

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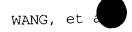
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10	TTT AGC AAT CCC ATC AGC AGC AGC AAG AGG AAT GTC TCC CTC CTG ATA Phe Ser Asn Pro Ile Ser Ser Ser Lys Arg Asn Val Ser Leu Leu Ile 110 115 120	548
	TCA GCT AAT TCA GGA CTG TGAGCCGGCT CATTTCTGGG CTCCATCGGC Ser Ala Asn Ser Gly Leu 125	596
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	CGCCTCTGTC TTTTGGGTCA AGTCTTAATC CCTGCACCTG AGTTGGTCCT CCCTCTGCAC	716
20	CCCCACCACC TCCTGCCCGT CTGGCAACTG GAAAGAAGGA GTTGGCCTGA TTTTAACCTT	776
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E0	Ala Tyr His Tyr Pro Ile Gly Trp Ala Val Leu Arg Arg Ala Trp Thr 10 15 20 25	
50	Tyr Arg Ile Gln Glu Val Ser Gly Ser Cys Asn Leu Pro Ala Ala Ile 30 35 40	
55	Phe Tyr Leu Pro Lys Arg His Arg Lys Val Cys Gly Asn Pro Lys Ser 45 50 55	
	Arg Glu Val Gln Arg Ala Met Lys Leu Leu Asp Ala Arg Asn Lys Val 60 65 70	
60	Phe Ala Lys Leu His His Asn Met Gln Thr Phe Gln Ala Gly Pro His	

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		75					80					85					
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5	Phe	Ser	Asn	Pro	11e 110	Ser	Ser	Ser	Lys	Arg 115	Asn	Val	Ser	Leu	Leu 120	Ile	
10	Ser	Ala	Asn	Ser 125	Gly	Leu											
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40											GCA Ala 1						96
											CCT Pro						144
45											GAC Asp						192
50											GCA Ala						240
55											AAA Lys 65						288
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60	CTG	GGGT	TGG	AGGT	TTCA	CT T	GCAC	ATCA	T GG	AGGG	TTTA	GTG	CTTA	TCT	AATT	TGTGCC	408

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		528
5	AGCATCACAT TAAAGTTAAA CTGTATTTTA TGTTATTTAT AGCTGTAGGT TTTCTGTGTT	588
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	ATAAAATAAG AAAAATATTA ATAAGACAAA TATTGAAAAT AAAGAAACAA AAAGTTAAAA	768
15	ААААААААА ААААААААА ААААААААА	801
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30	Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys -10 -5 1 5	
35	Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly 10 15 20	
	Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile 25 30 35	
40	Phe His Thr Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr 40 45 50	
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0.0	GAA GAC TGC TGC CTG TCT GTG ACC CAG AAA CCC ATC CCT GGG TAC ATC Glu Asp Cys Cys Leu Ser Val Thr Gln Lys Pro Ile Pro Gly Tyr Ile 30 35 40	267										
20	GTG AGG AAC TTC CAC TAC CTT CTC ATC AAG GAT GGC TGC AGG GTG CCT Val Arg Asn Phe His Tyr Leu Leu Ile Lys Asp Gly Cys Arg Val Pro 45	315										
25	GCT GTA GTG TTC ACC ACA CTG AGG GGC CGC CAG CTC TGT GCA CCC CCA Ala Val Val Phe Thr Thr Leu Arg Gly Arg Gln Leu Cys Ala Pro Pro 60 65 70	363										
30	GAC CAG CCC TGG GTA GAA CGC ATC ATC CAG AGA CTG CAG AGG ACC TCA Asp Gln Pro Trp Val Glu Arg Ile Ile Gln Arg Leu Gln Arg Thr Ser 75 80 85 90	411										
35	GCC AAG ATG AAG CGC CGC AGC AGT TAACCTATGA CCGTGCAGAG GGAGCCCGGA Ala Lys Met Lys Arg Arg Ser Ser 95	465										
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40	ACCAGGCTTC CAGCTCCTCT GCACCAGACC TGACCAGCCA GGACAGGGCC TGGGGTGTGT	585										
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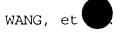
D	$x_0$	58	9Q1
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				20					25					30				
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25		(ii)	) MOI	LECUI	LE TY	PE:	cDN2	A										
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35				QUENC												61.T		•
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50															GCT Ala		19	2
55															ATG Met		24	0
55															GTG Val 95		28	8

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13															GTC Val 175			528
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25															GGG Gly			624
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35															AAA Lys			720
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50			Val												AAC Asn			912
55															CTG Leu			960
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60	TTC	TCC	TGT	GCC	GGG	AGG	TAC	TCA	GAA	AAC	ATT	TCT	CGG	CAG	ACC	AGT		1056



	Phe	Ser	Cys	Ala 340	Gly	Arg	Tyr	Ser	Glu 345	Asn	Ile	Ser	Arg	Gln 350	Thr	Ser		
5										TCC Ser				TGAT	raga <i>l</i>	AAG		1105
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30	Gly	Ser	Ser 35	Pro	Gly	Tyr	Leu	Tyr 40	Arg	Ile	Ala	Tyr	Ser 45	Leu	Ile	Cys		
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35	Tyr 65	Lys	Lys	Ala	Arg	Ser 70	Met	Thr	Asp	Val	Tyr 75	Leu	Leu	Asn	Met	Ala 80		
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	Cys	Ile 130		Met	Asp	Arg	Tyr 135	Ile	Ala	Ile	Val	Gln 140	Ala	Thr	Lys	Ser		
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55	Asn	Gln	Lys	Tyr 180	Asn	Thr	Gln	Gly	Ser 185	Asp	Val	Cys	Glu	Pro 190	Lys	Tyr		

Gln Thr Val Ser Glu Pro Ile Arg Trp Lys Leu Leu Met Leu Gly Leu 195 200 205

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	His	Lys	Ala	Ile	Arg 245	Val	Ile	Ile	Ala	Val 250	Val	Leu	Val	Phe	Leu 255	Ala	
10	Cys	Gln	Ile	Pro 260	His	Asn	Met	Val	Leu 265	Leu	Val	Thr	Ala	Ala 270	Asn	Leu	
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1.3	Lys	Thr 290	Val	Thr	Glu	Val	Leu 295	Ala	Phe	Leu	His	Cys 300	Cys	Leu	Asn	Pro	
20	Val 305	Leu	Tyr	Ala	Phe	Ile 310	Gly	Gln	Lys	Phe	Arg 315	Asn	Tyr	Phe	Leu	Lys 320	
	Ile	Leu	Lys	Asp	Leu 325	Trp	Cys	Val	Arg	Arg 330	Lys	Tyr	Lys	Ser	Ser 335	Gly	
25	Phe	Ser	Cys	Ala 340	Gly	Arg	Tyr	Ser	Glu 345	Asn	Ile	Ser	Arg	Gln 350	Thr	Ser	
30	Glu	Thr	Ala 355	Asp	Asn	Asp	Asn	Ala 360	Ser	Ser	Phe	Thr	Met 365				
20	(2)	INF	ORMA'	rion	FOR	SEQ	ID I	NO:1	1:								
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 1547 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>																
40		(ii	) MO	LECU!	LE T	YPE:	cDN.	A									
45		(ix		A) N.	AME/	KEY:		.111	6								
40		(xi	) SE	OUEN	CE D	ESCR	IPTI	ON:	SEO	ID N	0:11	:					
50	GAG												AAAT	Me		C TAC e Tyr	57
55			Phe			GGC Gly		Leu					Tyr			GCA Ala	105
60		Glu					Val					Glu				GAT Asp 35	153

						GAC Asp											201	1
5	CTG Leu	GTG Val	CCA Pro	TCA Ser 55	CTC Leu	TGC Cys	TCT Ser	GCT Ala	GTG Val 60	TTT Phe	GTG Val	ATC Ile	GGT Gly	GTC Val 65	CTG Leu	GAC Asp	249	9
10						CTT Leu											29'	7
15						CTT Leu											34!	5
20						TTC Phe 105											39.	3
20	AAA Lys	ATT Ile	CTC Leu	ATT Ile	GGA Gly 120	CTG Leu	TAC Tyr	TTC Phe	GTG Val	GGC Gly 125	CTG Leu	TAC Tyr	AGT Ser	GAG Glu	ACA Thr 130	TTT Phe	44	1
25						ACT Thr											4.8	9
30						GCC Ala											53	7
35						GTA Val											58	5
40						CAG Gln 185											63	3
40	AGC Ser	AGA Arg	ACT Thr	CCC Pro	TTC Phe 200	CTG Leu	CCA Pro	GCT Ala	GAT Asp	GAG Glu 205	ACA Thr	TTC Phe	TGG Trp	AAG Lys	CAT His 210	TTT Phe	68	1
<b>4</b> 5						AAC Asn											72	9
50						GTG Val			Arg								77	7
55						TTC Phe							Met				82	5
60		Leu														TTC Phe 275	87	3

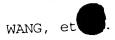
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	AAA GAA CAC TTC TCC CTG AGT GAC TGC AAG AGC AGC TAC AAT CTG GAC Lys Glu His Phe Ser Leu Ser Asp Cys Lys Ser Ser Tyr Asn Leu Asp 280 285 285	921										
5	AAA AGT GTT CAC ATC ACT AAA CTC ATC GCC ACC ACC CAC TGC TGC ATC Lys Ser Val His Ile Thr Lys Leu Ile Ala Thr Thr His Cys Cys Ile 295 300 305	969										
10	AAC CCT CTC CTG TAT GCG TTT CTT GAT GGG ACA TTT AGC AAA TAC CTC Asn Pro Leu Leu Tyr Ala Phe Leu Asp Gly Thr Phe Ser Lys Tyr Leu 310 320	1017										
15	TGC CGC TGT TTC CAT CTG CGT AGT AAC ACC CCA CTT CAA CCC AGG GGG Cys Arg Cys Phe His Leu Arg Ser Asn Thr Pro Leu Gln Pro Arg Gly 325	1065										
2.0	CAG TCT GCA CAA GGC ACA TCG AGG GAA GAA CCT GAC CAT TCC ACC GAA Gln Ser Ala Gln Gly Thr Ser Arg Glu Glu Pro Asp His Ser Thr Glu 340 345 350 355	1113										
20	GTG TAAACTAGCA TCCACCAAAT GCAAGAAGAA TAAACATGGA TTTTCATCTT Val											
25	TCTGCATTAT TTCATGTAAA TTTTCTACAC ATTTGTATAC AAAATCGGAT ACAGGAAGAA	1226										
AAGGGAGAG TGAGCTAACA TTTGCTAAGC ACTGAATTTG TCTCAGGCAC CGTGCAAGGC												
30	TCTTTACAAA CGTGAGCTCC TTCGCCTCCT ACCACTTGTC CATAGTGTGG ATAGGACTAG											
	TCTCATTTCT CTGAGAAGAA AACTAAGGCG CGGAAATTTG TCTAAGATCA CATAACTAGG	1406										
	AAGTGGCAGA ACTGATTCTC CAGCCCTGGT AGCATTTGCT CAGAGCCTAC GCTTGGTCCA	1466										
35	GAACATCAAA CTCCAAACCC TGGGGACAAA CGACATGAAA TAAATGTATT TTAAAACATA	1526										
	TAAAAAAA AAAAAAAAA A	1547										
40	(2) INFORMATION FOR SEQ ID NO:12:											
45	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 356 amino acids  (B) TYPE: amino acid  (D) TOPOLOGY: linear											
	(ii) MOLECULE TYPE: protein											
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:											
50	Met Ile Tyr Thr Arg Phe Leu Lys Gly Ser Leu Lys Met Ala Asn Tyr 1 5 10 15											
55	Thr Leu Ala Pro Glu Asp Glu Tyr Asp Val Leu Ile Glu Gly Glu Leu 20 25 30											
	Glu Ser Asp Glu Ala Glu Gln Cys Asp Lys Tyr Asp Ala Gln Ala Leu 35 40 45											
60	Ser Ala Gln Leu Val Pro Ser Leu Cys Ser Ala Val Phe Val Ile Gly											

50 55 60

5	Val 65	Leu	Asp	Asn	Leu	Leu 70	Val	Val	Leu	Ile	Leu 75	Val	Lys	Tyr	Lys	Gly 80
5	Leu	Lys	Arg	Val	Glu 85	Asn	Ile	Tyr	Leu	Leu 90	Asn	Leu	Ala	Val	Ser 95	Asn
10	Leu	Cys	Phe	Leu 100	Leu	Thr	Leu	Pro	Phe 105	Trp	Ala	His	Ala	Gly 110	Gly	Asp
	Pro	Met	Cys 115	Lys	Ile	Leu	Ile	Gly 120	Leu	Tyr	Phe	Val	Gly 125	Leu	Tyr	Ser
15	Glu	Thr 130	Phe	Phe	Asn	Cys	Leu 135	Leu	Thr	Val	Gln	Arg 140	Tyr	Leu	Val	Phe
20	Leu 145	His	Lys	Gly	Asn	Phe 150	Phe	Ser	Ala	Arg	Arg 155	Arg	Val	Pro	Cys	Gly 160
20	Ile	Ile	Thr	Ser	Val 165	Leu	Ala	Trp	Val	Thr 170	Ala	Ile	Leu	Ala	Thr 175	Leu
25	Pro	Glu	Phe	Val 180	Val	Tyr	Lys	Pro	Gln 185	Met	Glu	Asp	Gln	Lys 190	Tyr	Lys
	Суѕ	Ala	Phe 195	Ser	Arg	Thr	Pro	Phe 200	Leu	Pro	Ala	Asp	Glu 205	Thr	Phe	Trp
30	Lys	His 210	Phe	Leu	Thr	Leu	Lys 215	Met	Asn	Ile	Ser	Val 220	Leu	Val	Leu	Pro
2.5	Leu 225	Phe	Ile	Phe	Thr	Phe 230	Leu	Tyr	Val	Gln	Met 235	Arg	Lys	Thr	Leu	Arg 240
35	Phe	Arg	Glu	Gln	Arg 245	Tyr	Ser	Leu	Phe	Lys 250	Leu	Val	Phe	Ala	Val 255	Met
40	Val	Val	Phe	Leu 260	Leu	Met	Trp	Ala	Pro 265	Tyr	Asn	Ile	Ala	Phe 270	Phe	Leu
	Ser	Thr		Lys		His	Phe		Leu				Lys 285	Ser	Ser	Tyr
45	Asn	Leu 290	Asp	Lys	Ser	Val	His 295		Thr	Lys	Leu	Ile 300	Ala	Thr	Thr	His
ΕΛ	Cys 305	Cys	Ile	Asn	Pro	Leu 310	Leu	Tyr	Ala	Phe	Leu 315	Asp	Gly	Thr	Phe	Ser 320
50	Lys	Tyr	Leu	Cys	Arg 325	Cys	Phe	His	Leu	Arg 330	Ser	Asn	Thr	Pro	Leu 335	Gln
55	Pro	Arg	Gly	Gln 340	Ser	Ala	Gln	Gly	Thr 345	Ser	Arg	Glu	Glu	Pro 350	Asp	His
	Ser	Thr	Glu 355	Val												
<b>C</b> O	(0)	***	00143	m T O N	Bob	0.00		NO 1	2							

60 (2) INFORMATION FOR SEQ ID NO:13:



5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 355 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>
	(ii) MOLECULE TYPE: protein
10	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
15	Met Glu Thr Pro Asn Thr Thr Glu Asp Tyr Asp Thr Thr Thr Glu Phe  15 1
	Asp Tyr Gly Asp Ala Thr Pro Cys Gln Lys Val Asn Glu Arg Ala Phe 25 30
20	Gly Ala Gln Leu Leu Pro Pro Leu Tyr Ser Leu Val Phe Val Ile Gly 35
0.5	Leu Val Gly Asn Ile Leu Val Val Leu Val Leu Val Gln Tyr Lys Arg 50 50
25	Leu Lys Asn Met Thr Ser Ile Tyr Leu Leu Asn Leu Ala Ile Ser Asp 75 70
30	Leu Leu Phe Leu Phe Thr Leu Pro Phe Trp Ile Asp Tyr Lys Leu Lys 90 95
	Asp Asp Trp Val Phe Gly Asp Ala Met Cys Lys Ile Leu Ser Gly Phe 100 105
35	Tyr Tyr Thr Gly Leu Tyr Ser Glu Ile Phe Phe Ile Ile Leu Leu Thr 125
40	Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe Ala Leu Arg Ala 130 135
40	Arg Thr Val Thr Phe Gly Val Ile Thr Ser Ile Ile Ile Trp Ala Leu 160
45	Ala Ile Leu Ala Ser Met Pro Gly Leu Tyr Phe Ser Lys Thr Gln Trp 175
	Glu Phe Thr His His Thr Cys Ser Leu His Phe Pro His Glu Ser Leu 180 185
50	Arg Glu Trp Lys Leu Phe Gln Ala Leu Lys Leu Asn Leu Phe Gly Leu 195 200 205
55	Val Leu Pro Leu Leu Val Met Ile Ile Cys Tyr Thr Gly Ile Ile Lys 210 215
55	Ile Leu Leu Arg Arg Pro Asn Glu Lys Lys Ser Lys Ala Val Arg Leu 240
60	Ile Phe Val Ile Met Ile Ile Phe Phe Leu Phe Trp Thr Pro Tyr Asn

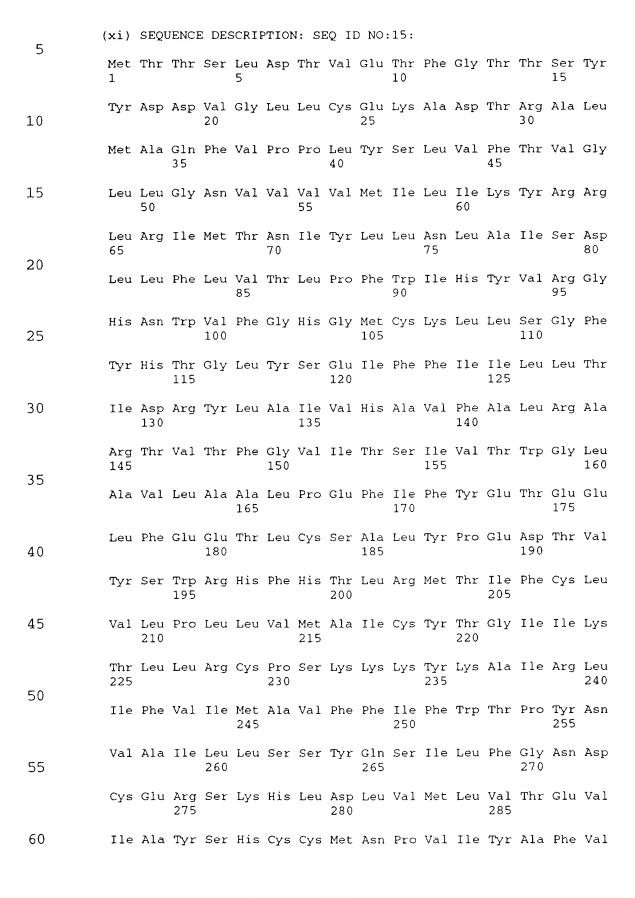
Cys Lys Leu Phe Thr Gly Leu Tyr His Ile Gly Tyr Phe Gly Gly Ile

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125 115 120 Phe Phe Ile Ile Leu Leu Thr Ile Asp Arg Tyr Leu Ala Ile Val His 135 5 Ala Val Phe Ala Leu Lys Ala Arg Thr Val Thr Phe Gly Val Val Thr Ser Val Ile Thr Trp Leu Val Ala Val Phe Ala Ser Val Pro Gly Ile 10 Ile Phe Thr Lys Cys Gln Lys Glu Asp Ser Val Tyr Val Cys Gly Pro 185 Tyr Phe Pro Arg Gly Trp Asn Asn Phe His Thr Ile Met Arg Asn Ile 15 200 Leu Gly Leu Val Leu Pro Leu Leu Ile Met Val Ile Cys Tyr Ser Gly 215 20 Ile Leu Lys Thr Leu Leu Arg Cys Arg Asn Glu Lys Lys Arg His Arg 235 Ala Val Arg Val Ile Phe Thr Ile Met Ile Val Tyr Phe Leu Phe Trp 25 Thr Pro Tyr Asn Ile Val Ile Leu Leu Asn Thr Phe Gln Glu Phe Phe 265 Gly Leu Ser Asn Cys Glu Ser Thr Ser Gln Leu Asp Gln Ala Thr Gln 30 Val Thr Glu Thr Leu Gly Met Thr His Cys Cys Ile Asn Pro Ile Ile 35 Tyr Ala Phe Val Gly Glu Lys Phe Arg Ser Leu Phe His Ile Ala Leu 305 Gly Cys Arg Ile Ala Pro Leu Gln Lys Pro Val Cys Gly Gly Pro Gly 40 330 Val Arg Pro Gly Lys Asn Val Lys Val Thr Thr Gln Gly Leu Leu Asp 340 345 45 Gly Arg Gly Lys Gly Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu 360 Gln Asp Lys Glu Gly Ala 370 50 (2) INFORMATION FOR SEQ ID NO:15: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 amino acids 55 (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein



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	,	290					295					300				
5	Gly 305	Glu	Arg	Phe	Arg	Lys 310	Tyr	Leu	Arg	His	Phe 315	Phe	His	Arg	His	Leu 320
J	Leu	Met	His	Leu	Gly 325	Arg	Tyr	Ile	Pro	Phe 330	Leu	Pro	Ser	Glu	Lys 335	Leu
10	Glu	Arg	Thr	Ser 340	Ser	Val	Ser	Pro	Ser 345	Thr	Ala	Glu	Pro	Glu 350	Leu	Ser
	Ile	Val	Phe 355						٠							
15	(2) INFO	RMATI	ON I	FOR S	SEQ 1	D NO	16:	:								
20	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 360 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>															
	(ii)	MOLE	ECUL	E· TYI	PE: p	prote	∍in									
25																
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:															
30	Met 1	Asn	Pro	Thr	Asp 5	Ile	Ala	Asp	Thr	Thr 10	Leu	Asp	Glu	Ser	Ile 15	Tyr
35	Ser	Asn	Tyr	Tyr 20	Leu	Tyr	Glu	Ser	Ile 25	Pro	Lys	Pro	Cys	Thr 30	Lys	Glu
33	Gly	Ile	Lys 35	Ala	Phe	Gly	Glu	Leu 40	Phe	Leu	Pro	Pro	Leu 45	Tyr	Ser	Leu
40	Val	Phe 50	Val	Phe	Gly	Leu	Leu 55	Gly	Asn	Ser	Val	Val 60	Val	Leu	Val	Leu
	Phe 65	Lys	Tyr	Lys	Arg	Leu 70	Arg	Ser	Met	Thr	Asp 75	Val	Tyr	Leu	Leu	Asn 80
45	Leu	Ala	Ile	Ser	Asp 85	Leu	Leu	Phe	Val	Phe 90	Ser	Leu	Pro	Phe	Trp 95	Gly
50	Tyr	Tyr	Ala	Ala 100	Asp	Gln	Trp	Val	Phe 105	Gly	Leu	Gly	Leu	Cys 110	Lys	Met
	Ile	Ser	Trp 115	Met	Tyr	Leu	Val	Gly 120	Phe	Tyr	Ser	Gly	Ile 125	Phe	Phe	Val

Met Leu Met Ser Ile Asp Arg Tyr Leu Ala Ile Val His Ala Val Phe

Ser Leu Arg Ala Arg Thr Leu Thr Tyr Gly Val Ile Thr Ser Leu Ala

Thr Trp Ser Val Ala Val Phe Ala Ser Leu Pro Gly Phe Leu Phe Ser

WANG, et 170 165 Thr Cys Tyr Thr Glu Arg Asn His Thr Tyr Cys Lys Thr Lys Tyr Ser 185 5 Leu Asn Ser Thr Thr Trp Lys Val Leu Ser Ser Leu Glu Ile Asn Ile Leu Gly Leu Val Ile Pro Leu Gly Ile Met Leu Phe Cys Tyr Ser Met 10 Ile Ile Arg Thr Leu Gln His Cys Lys Asn Glu Lys Lys Asn Lys Ala Val Lys Met Ile Phe Ala Val Val Leu Phe Leu Gly Phe Trp Thr 15 245 Pro Tyr Asn Ile Val Leu Phe Leu Glu Thr Leu Val Glu Leu Glu Val 265 Leu Gln Asp Cys Thr Phe Glu Arg Tyr Leu Asp Tyr Ala Ile Gln Ala 20 280 Thr Glu Thr Leu Ala Phe Val His Cys Cys Leu Asn Pro Ile Ile Tyr 25 Phe Phe Leu Gly Glu Lys Phe Arg Lys Tyr Ile Leu Gln Leu Phe Lys 315 310 Thr Cys Arg Gly Leu Phe Val Leu Cys Gln Tyr Cys Gly Leu Leu Gln 30 330 Ile Tyr Ser Ala Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr Met 345 35 Asp His Asp Leu His Asp Ala Leu 355 (2) INFORMATION FOR SEQ ID NO:17: 40 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 45

(ii) MOLECULE TYPE: cDNA

50

55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GTAATGATCA GTCAACGGGG GAC

- (2) INFORMATION FOR SEQ ID NO:18:
  - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs
- (B) TYPE: nucleic acid 60

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	(C) STRANDEDNESS: si (D) TOPOLOGY: linear	= -	
5	(ii) MOLECULE TYPE: cDNA		
10	(xi) SEQUENCE DESCRIPTION	: SEQ ID NO:18:	
10	CCAGCAAGCT TGCAACCTTA ACCA		24
	(2) INFORMATION FOR SEQ ID NO	:19:	
15	(i) SEQUENCE CHARACTERIST (A) LENGTH: 9 amino (B) TYPE: amino acid (C) STRANDEDNESS: st	acids 1 ingle	
20	(D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: peption	de	
25	(xi) SEQUENCE DESCRIPTION	· SEO ID NO:19:	

Asp Tyr Lys Asp Asp Asp Lys Leu 1